

**DryTec Extra Shock**

Version 1.1

MSDS Number: 000000023165

Revision Date: 2015.06.09

**SECTION 1. IDENTIFICATION**

Product name : DryTec Extra Shock

Product code : 000000023165

**Manufacturer or supplier's details**

Company : Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004

E-mail address : prodinfo@lonza.com

Emergency telephone number : ACEAN - DAY OR NIGHT: (800) 654-6911

**Recommended use of the chemical and restrictions on use**

Recommended use : Water treatment chemical

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Oxidizing solids : Category 2

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Acute toxicity (Inhalation) : Category 3

Specific target organ toxicity -  
single exposure : Category 3**GHS Label element**

Hazard pictograms



Signal word : Danger

Hazard statements : H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and  
other ignition sources. No smoking.  
P220 Keep/Store away from clothing/ combustible materials.

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P221 Take any precaution to avoid mixing with combustibles.  
P260 Do not breathe vapours.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Hypochlorite

**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Calcium hypochlorite	7778-54-3	60.00 - 80.00
Sodium chloride	7647-14-5	10.00 - 20.00
Calcium chlorate	10137-74-3	0.00 - 5.00
Calcium chloride	10043-52-4	0.00 - 5.00
Calcium dihydroxide	1305-62-0	0.00 - 4.00
Calcium carbonate	471-34-1	0.00 - 5.00
Water	7732-18-5	7.00 - 16.00

**SECTION 4. FIRST AID MEASURES**

General advice : Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or

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	going for treatment.
If inhaled	: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
In case of skin contact	: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
In case of eye contact	: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	: IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Notes to physician	: Probable mucosal damage may contraindicate the use of gastric lavage.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Water only. Do not use dry extinguishers containing ammonium compounds.
Further information	: Use water to cool containers exposed to fire. See Section 6 for protective equipment for fire fighting.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air respirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment.
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**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling	: Avoid inhalation of dust and fumes. Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash before reuse.
Conditions for safe storage	: Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g. other pool treatment products, acids,

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organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Calcium carbonate	471-34-1	REL (Total)	10 mg/m3	NIOSH/GUIDE
		REL (Respirable.)	5 mg/m3	NIOSH/GUIDE
		PEL (Total dust.)	15 mg/m3	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m3	OSHA_TRANS
		TWA (Total dust.)	15 mg/m3	Z1A
		TWA (Respirable fraction.)	5 mg/m3	Z1A
Calcium dihydroxide	1305-62-0	TWA	5 mg/m3	ACGIH
		REL	5 mg/m3	NIOSH/GUIDE
		PEL (Total dust.)	15 mg/m3	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m3	OSHA_TRANS
		TWA	5 mg/m3	Z1A
		TWA	5 mg/m3	CAD ON OEL

**Appropriate engineering controls****Engineering measures**

: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

**Personal protective equipment****Hand protection****Remarks**

: Wear impervious gloves to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body. A safety shower should be provided in the immediate work area.

**Eye protection**

: Use chemical goggles.  
Emergency eyewash should be provided in the immediate work area.

**Skin and body protection**

: Neoprene, Nitrile, Natural rubber (This includes: gloves, boots, apron, protective suit)

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Free flowing, granular
Colour	: no data available
Odour	: Chlorine-like
Odour Threshold	: no data available
pH	: no data available
Melting point/freezing point	: Not applicable
Boiling point/boiling range	: no data available
Flash point	: no data available
Evaporation rate	: Not applicable
Flammability (solid, gas)	: This product is chemically reactive with many substances. Any contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire.
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Water solubility	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Oxidizing properties	: Oxidizer

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**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid	: Do not store next to heat source, in direct sunlight, or elevated storage temperature. Do not store where the daily average tem-
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perature exceeds 95 °F. Prevent ingress of humidity and moisture into container or package. Always close the lid.

- Incompatible materials : This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials. Do not allow product to contact any foreign matter, including other water treatment products. Contamination or improper use may cause a fire of great intensity, explosion or the release of toxic gases. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter.
- Hazardous decomposition products : Chlorine

**SECTION 11. TOXICOLOGICAL INFORMATION**

- Information on likely routes of exposure : Inhalation, skin, eyes, ingestion

**Acute toxicity**

- Acute oral toxicity (LD50) : Approximately 800 mg/kg  
Species: Rat

- Acute inhalation toxicity (Inhalation LC50) : > 2.04 mg/l  
Species: Rat  
Exposure time: 1 h  
Remarks: (Nose Only)

- Acute inhalation toxicity (Inhalation LC50) : > 0.51 mg/l  
Species: Rat  
Exposure time: 4 h  
Remarks: (Nose Only)

- Acute dermal toxicity (LD50) : > 2,000 mg/kg  
Species: Rabbit

**Skin corrosion/irritation**

- Skin irritation : Remarks: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION.WET MATERIAL CAUSES SKIN BURNS.

**Serious eye damage/eye irritation**

- Eye irritation : Remarks: Corrosive to eyes.

**Respiratory or skin sensitisation**

- Sensitisation : Remarks: This material is not known or reported to be a skin or respiratory sensitizer.

**Carcinogenicity****IARC**

No component of this product present at levels greater than or

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equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Further information**

Remarks: No additional health information available.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Highly toxic to fish and other aquatic organisms.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.  
If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal restrictions under 40 CFR 268 and must be managed accordingly.

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**SECTION 14. TRANSPORT INFORMATION****IATA**

**UN number** : 2880  
**Proper shipping name** : Calcium hypochlorite, hydrated mixture  
(Calcium hypochlorite)  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**Environmental hazards** : yes

**IMDG**

**UN number** : 2880  
**Proper shipping name** : Calcium hypochlorite, hydrated mixture  
(Calcium hypochlorite)  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**EmS Number 1** : F-H  
**EmS Number 2** : S-Q  
**Environmental hazards** : Marine pollutant: yes

**ADR**

**UN number** : 2880  
**Proper shipping name** : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
(Calcium hypochlorite)  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Classification Code** : O2  
**Hazard Identification Number** : 50  
**Labels** : 5.1  
**Environmental hazards** : yes

**RID**

**UN number** : 2880  
**Proper shipping name** : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
(Calcium hypochlorite)  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Classification Code** : O2  
**Hazard Identification Number** : 50  
**Labels** : 5.1  
**Environmental hazards** : yes



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**DOT**

**UN number** : 2880  
**Proper shipping name** : Calcium hypochlorite, hydrated mixtures (Calcium hypochlorite)  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**Emergency Response Guidebook Number** : 140  
**Environmental hazards** : yes

**TDG**

**UN number** : 2880  
**Proper shipping name** : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE (Calcium hypochlorite)  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**Environmental hazards** : yes

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

**SECTION 15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

**Signal word** : DANGER!  
**Hazard statements** : Causes substantial but temporary eye injury.  
Corrosive. Causes skin burns.  
Corrosive. Causes irreversible eye damage.  
This pesticide is toxic to fish.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Calcium hypochlorite	7778-54-3	10	

**SARA 302**

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No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Calcium hypochlorite	7778-54-3
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Calcium hypochlorite	7778-54-3
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

Calcium hypochlorite	7778-54-3
Calcium carbonate	471-34-1
Calcium chlorate	10137-74-3
Calcium dihydroxide	1305-62-0

**Pennsylvania Right To Know**

Calcium hypochlorite	7778-54-3
Sodium chloride	7647-14-5
Calcium carbonate	471-34-1
Calcium chlorate	10137-74-3
Calcium chloride	10043-52-4
Calcium dihydroxide	1305-62-0

**New Jersey Right To Know**

Calcium hypochlorite	7778-54-3
Sodium chloride	7647-14-5

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Calcium carbonate	471-34-1
Calcium chlorate	10137-74-3
Calcium chloride	10043-52-4
Calcium dihydroxide	1305-62-0

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

TSCA : This is an EPA registered pesticide.

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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**SECTION 16. OTHER INFORMATION**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.